

WHAT IS CLAIMED IS:

1. A backlight of a liquid crystal display device, comprising:

a light guide having an end surface, an upper surface, and a lower surface;

a lamp facing said end surface; and

a lamp housing having an inner side holding said lamp inside, said lamp housing including an upper end portion and a lower end portion, wherein there is no vertical gap between a lower side of said upper end portion and said upper surface of said light guide.

2. The backlight according to the claim 1, wherein said upper end portion of said lamp housing is apart from said edge surface of said light guide.

3. The backlight according to the claim 2, wherein said lower side of said upper end portion of said lamp housing is lower than said upper surface of said light guide.

4. The backlight according to the claim 1, further comprising:

a sheet reflector disposed below said light guide and next to said lower end portion of said lamp housing, and

wherein a part of said lower end portion is also disposed below said light guide.

5. A liquid crystal display device, comprising:

a liquid crystal panel;

a light guide disposed below said liquid crystal panel, said light guide having an end surface, an upper surface, and a lower surface;

a lamp facing said end surface;

a lamp housing having an inner side holding said lamp inside, said lamp housing including an upper end portion and a lower end portion; and

a main supporter, a portion of which is between said lamp housing and said liquid crystal panel.

6. A liquid crystal display device according to claim 5, wherein said main supporter is on said upper surface and near said end surface of said light guide.

7. A liquid crystal display device according to claim 5, wherein said upper end portion of said lamp housing is affixed to said main supporter.

8. A liquid crystal display device according to claim 5, wherein said main supporter is connected to a lower side of said liquid crystal panel.

9. A liquid crystal display device according to claim 5, further comprising:

a first cover shielding said lower surface of said light guide; and

a second cover connecting an upper side of said liquid crystal panel and said first cover.

10. A liquid crystal display device according to claim 9, wherein said first cover is connected with said lamp housing.

11. A liquid crystal display device according to claim 5, wherein said main supporter includes a material scattering or absorbing a light.

12. A liquid crystal display device according to claim 9, wherein said first cover or said second cover includes a thermally conducting material.

13. A liquid crystal display device according to claim 5, wherein said main supporter includes a thermally insulating material.

14. A liquid crystal display device according to claim 5, wherein there is no vertical gap between a lower surface of said upper end portion of said lamp housing and said upper surface of said light guide.

15. A liquid crystal display device according to claim 5, wherein said lower surface of said upper end portion of said lamp housing is lower than said upper surface of said light guide.

16. A liquid crystal display device according to claim 5, wherein the first portion of said main supporter is on a part of said upper surface of said light guide, said main supporter also affixed to said upper end portion of said lamp housing.

17. A backlight for an LCD device, comprising:  
a lamp housing including an upper extension;  
a lamp light within said lamp housing; and  
a light guide horizontally spaced apart from said upper extension.

18. The backlight of claim 17, wherein said lamp housing further includes a lower extension, said backlight further comprising:

a sheet reflector disposed below said guide light and horizontally spaced apart from said lower extension.

19. The backlight of claim 17, wherein at least a portion of said upper extension is below an upper surface of said light guide.

20. The backlight of claim 17, wherein said upper extension is entirely above an upper surface of said light guide.

21. The backlight of claim 18, wherein said light guide is disposed above at least a portion of said lower extension.

22. The backlight of claim 18, wherein at least a portion of said lower extension is above a lower surface of said light guide.

23. An LCD device, comprising:  
a liquid crystal display panel;

a light guide disposed below said liquid crystal display panel;

a lamp housing including an upper extension, said upper extension being horizontally spaced apart from said light guide;

a plurality of optical films above at least a portion of the upper surface of said light guide;

a lamp light within said lamp housing; and

a lamp wire supplying power to said lamp light.

24. The LCD device of claim 23, wherein said lamp housing further includes a lower extension, said LCD device further comprising:

a sheet reflector disposed below said guide light and horizontally spaced apart from said lower extension.

25. The LCD device of claim 24, wherein at least a portion of said lower extension is above a lower surface of said light guide.

26. The LCD device of claim 23, further comprising:

a main supporter on a side of and above said lamp housing and wherein an end portion of said main supporter is above said light guide.

27. The LCD device of claim 26, wherein said main supporter and said lamp housing are affixed to each other.

28. The LCD device of claim 27, wherein said main supporter and said lamp housing are affixed to each other by a double-sided adhesive tape.

29. The LCD device of claim 26, wherein said end portion of said main supporter extends beyond a side edge of said light guide and buttresses against said upper extension of said lamp housing.

30. The LCD device of claim 26, wherein said main supporter is made of a thermally insulating material.

31. The LCD device of claim 30, wherein said thermally insulating material is plastic.

32. The LCD device of claim 26, wherein said main supporter is made of a material that absorb or scatter light.

33. The LCD device of claim 26, further comprising:  
a bottom cover, made of a thermally conducting material, disposed below said lamp housing.

34. The LCD device of claim 33, further comprising:

a top case, made of a thermally conducting material, disposed above said main supporter and said liquid crystal panel.

35. An LCD device, comprising:

a liquid crystal display panel;

a light guide disposed below said liquid crystal display panel;

a lamp housing aside said light guide;

a main supporter on a side of and above said lamp housing, wherein said main supporter is thermally insulating;

a lamp light within said lamp housing; and

a lamp wire supplying power to said lamp light.

36. The LCD device of claim 35, further comprising:

a bottom cover, made of a thermally conducting material, disposed below said lamp housing.

37. The LCD device of claim 36, further comprising:

a top case, made of a thermally conducting material, disposed above said main supporter and said liquid crystal panel.